

In re Application of:  
Worley et al.  
Application No.: 09/245,277  
Filed: February 5, 1999  
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PATENT  
Attorney Docket No.: JHU1530-3

AMENDMENTS

A. IN THE CLAIMS:

Please enter the following rewritten claims:

- NE see amend B*
- Claims 1-7 Cancel by amend B*
1. (Amended) An isolated nucleic acid comprising at least one adenine base, at least one guanine base, at least one cytosine base, and at least one thymine or uracil base, wherein said isolated nucleic acid is at least 12 bases in length, and hybridizes to the sense or antisense strand of a second nucleic acid under moderately stringent or highly stringent hybridization conditions, said second nucleic acid having a sequence as set forth in SEQ ID NO: 26.
  2. (Amended) The isolated nucleic acid of claim 1, wherein said hybridization conditions are moderately stringent hybridization conditions, wherein said hybridization conditions include 1-15 ng/mL of isolated nucleic acid probe hybridizing to said second nucleic acid bound to a nitrocellulose filter, hybridization in 25 mM KPO<sub>4</sub> (pH 7.4), 5X SSC, 5X Denhart's solution, 50 µg/mL denatured sonicated salmon sperm DNA, 50% formamide, 10% Dextran sulfate at 42°C, with washes at 50°C in 2X SSC and 0.1% SDS.
  3. (Amended) The isolated nucleic acid of claim 1, wherein said hybridization conditions are highly stringent hybridization conditions, wherein said hybridization conditions include 1-15 ng/mL of isolated nucleic acid probe hybridizing to said second nucleic acid bound to a nitrocellulose filter, hybridization in 25 mM KPO<sub>4</sub> (pH 7.4), 5X SSC, 5X Denhart's solution, 50 µg/mL denatured sonicated salmon sperm DNA, 50% formamide, 10% Dextran sulfate at 42°C, with washes at 50°C in 2X SSC and 0.1% SDS.
  4. (Amended) An isolated nucleic acid, comprising a nucleotide sequence that encodes an amino acid sequence at least five amino acids in length, said amino acid sequence comprising at

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least three different amino acid residues, and being identical to a contiguous portion of sequence set forth in SEQ ID NO: 27.

5. (Amended) An isolated nucleic acid comprising a nucleic acid sequence at least 60 percent identical to the sequence set forth in SEQ ID NO: 26 and that is expressed in response to seizure or ischemia.

6. (Amended) An isolated nucleic acid, comprising a nucleic acid sequence that encodes an amino acid sequence at least 60 percent identical to the sequence set forth in SEQ ID NO: 27.

7. (Amended) An isolated nucleic acid comprising a nucleic acid sequence as set forth in SEQ ID NO: 26.

Please add the following new claims:

R126 ~~44~~<sup>62</sup> (New) The isolated nucleic acid of claim 6, wherein the isolated nucleic acid is expressed in response to seizure or ischemia.

<sup>63</sup>  
~~45~~ (New) The isolated nucleic acid of claim 5, wherein the nucleic acid sequence is at least 85 percent identical to said sequence set forth in SEQ ID NO: 26.

C<sup>1</sup>  
Sub-D17 <sup>64</sup>  
~~46~~ (New) The isolated nucleic acid of claim 45, wherein said isolated nucleic acid is expressed at elevated levels within one and one half hour following seizure or global ischemia.

<sup>65</sup>  
~~47~~ (New) An isolated nucleic acid sequence encoding an amino acid sequence of SEQ ID NO: 27.--